



ce Manual

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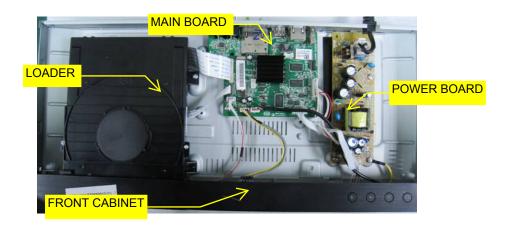




CLASS 1

LASER PRODUCT

LOCATION OF PCB BOARDS:



Version Variation

Ty pe/Versions		BDP5500					
Features	/12	/05	/51	/55	/93	/98	X/78
Power supply rating:220-240V ,60Hz	X		X				
Power supply rating:230-240V ,60Hz		Х					
Power supply rating:110-240V ,50Hz,60Hz				Х	X	X	х
Power consumption:20W	х	хх	x		Х	х	х

Repair Scenario Matrix

Ty pe/Versions	BDP5500						
Board in used	/12	/05	/51	/55	/93	/98	X/78
Main Board	Bd	Bd	Bd	Bd	Bd	Bd	Bd
Power Board	Bd	Bd	Bd	С	С	С	С
Front Board	Bd	Bd	Bd	С	С	С	С
Loader	Bd	Bd	Bd	С	С	С	С

^{*}Bd:Board Level Replacement

^{*}C:Component Level Repair

Specifications



Note

• Specifications are subject to change without notice

Region code

This player can play discs with the following region codes.

DVD

Blu-ray

Countries







Europe, United Kingdom

Playable media

- BD-Video, BD 3D
- DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL (Dual Layer)
- VCD/SVCD
- Audio CD, CD-R/CD-RW, MP3 media, WMA media, IPEG files
- DivX (Ultra)/DivX Plus HD media, MKV media
- USB storage device

File format

- Video: .avi, .divx, .mp4, .mkv, .wmv
- Audio: .mp3, .wma, .wav
- Picture: .jpg, .gif, .png

Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (75 ohm)
- HDMI output: 480i/576i, 480p/576p, 720p, 1080i, 1080p, 1080p/24Hz

Audio

- 2 Channel analog output
 - Audio Front L&R: 2 Vrms (> 1 kohm)
- Digital output: 0.5 Vp-p (75 ohm)
 - Coaxial
- HDMI output
- Sampling frequency:
 - MP3: 32 kHz, 44.1 kHz, 48 kHz
 - WMA: 44.1 kHz, 48 kHz
- Constant bit rate:
 - MP3: 112 kbps 320 kpbs
 - WMA: 48 kpbs 192 kpbs

USB

- Compatibility: Hi-Speed USB (2.0)
- Class support: USB Mass Storage Class
- File system: FAT16, FAT32
- USB port: 5V ===, 500mA (for each port)
- Support HDD (a portable hard disc drive): an external power source may be needed.

Main unit

BDP5500/05:

Power supply rating: AC 230-240V~, 50 Hz

BDP5500/12/51:

Power supply rating: AC 220-240V~, 50 Hz

- BDP5500/55/93/98/X78:
 - Power supply rating: AC 110-240V~, 50 Hz,60 Hz
- Power consumption: 20 W
- Power consumption in standby mode (fast wakeup disabled): < 0.3 W
- Dimensions (w \times h \times d): 435 \times 38 \times 212.7
- Net Weight: 1.53 kg

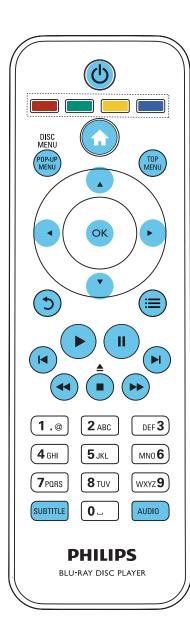
Accessories supplied

- Remote control and 2 AAA batteries
- User manual

Laser Specification

- Laser Type (Diode): AlGalnN (BD), AlGalnP (DVD/CD)
- Wave length: 398 ~ 412nm (BD), 650 ~ 664nm (DVD), 784 ~ 796nm (CD)
- Output power (Max ratings): 20mW (BD), 7mW (DVD), 7mW (CD)

Remote Control

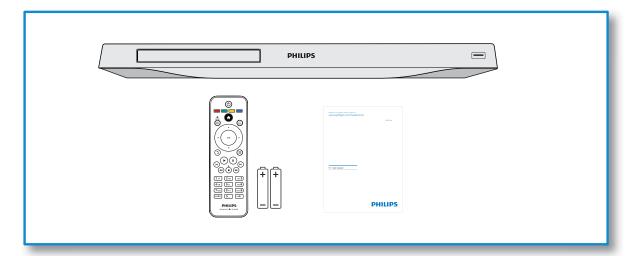


During play, press the following buttons to control.

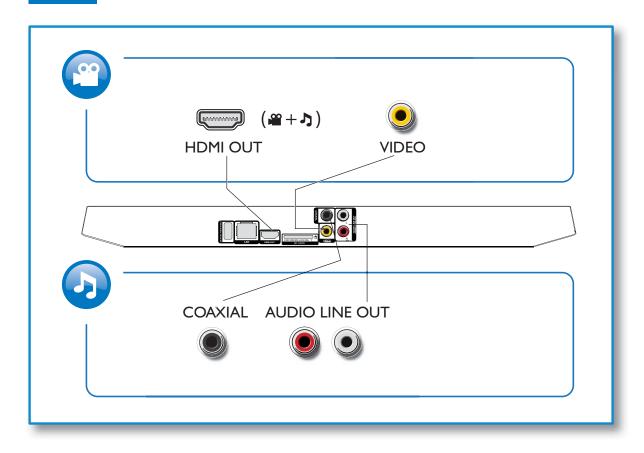
Button	Action
Ф	Turn on the player, or switch to
-	standby.
<u></u>	Access the home menu.
▲ / ■	Stop play.
	Press and hold (more than 4
	seconds) to open or close the
	disc compartment.
II	Pause play.
	Press repeatedly to slow forward
	frame by frame.
•	Start or resume play.
 	Skip to the previous or next track,
	chapter or file.
44 / >>	Fast backward or forward.
	Press repeatedly to change the
	search speed.
	Press ■ once, and then press ▶
	to slow forward.
AUDIO	Select an audio language or
	channel.
SUBTITLE	Select a subtitle language.
DISC	Access or exit the disc menu.
MENU /	
POP-UP	
MENU	
TOP	Access the main menu of a video
MENU	disc.
Color	Select tasks or options for Blu-ray
buttons	discs.
	Navigate the menus.
	Press ▲ ▼ to rotate a picture
	clockwise or counter-clockwise
	during slideshow.
OK	Confirm a selection or entry.
5	Return to a previous display menu.
=	Access more options during play.
_	



Brife Guide



1



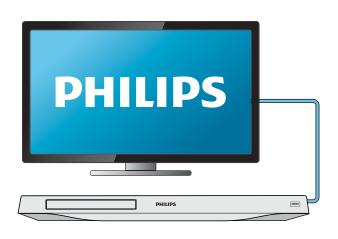




1 HDMI



OHDMI OVIDEO OCOAXIAL OAUDIO LINE OUT

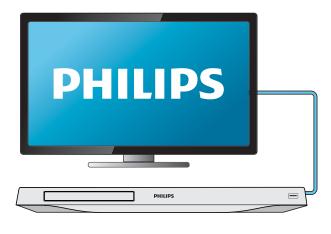




2 VIDEO+AUDIO LINE OUT



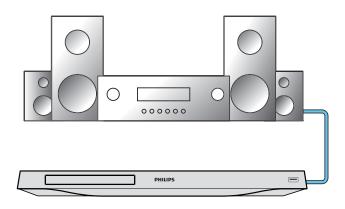
OHDMI OVIDEO OCOAXIAL OAUDIO LINE OUT





3 COAXIAL

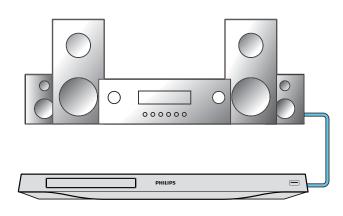
OHDMI OVIDEO OCOAXIAL OAUDIO LINE OUT



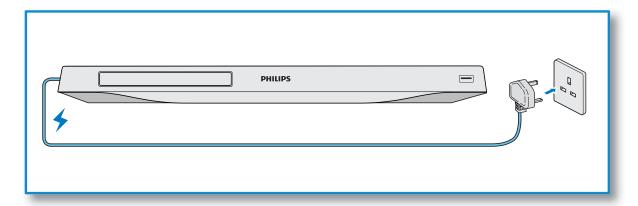


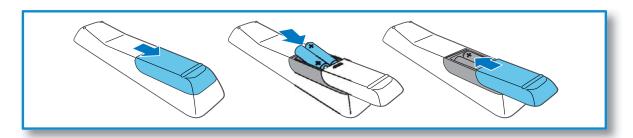
4 AUDIO LINE OUT

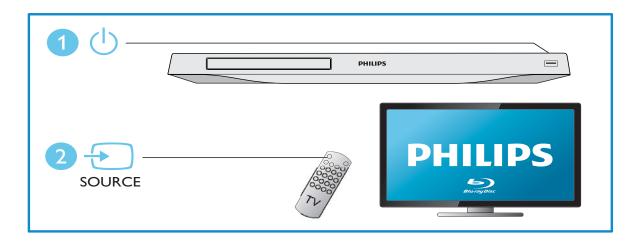
OHDMI OVIDEO OCOAXIAL @AUDIO LINE OUT



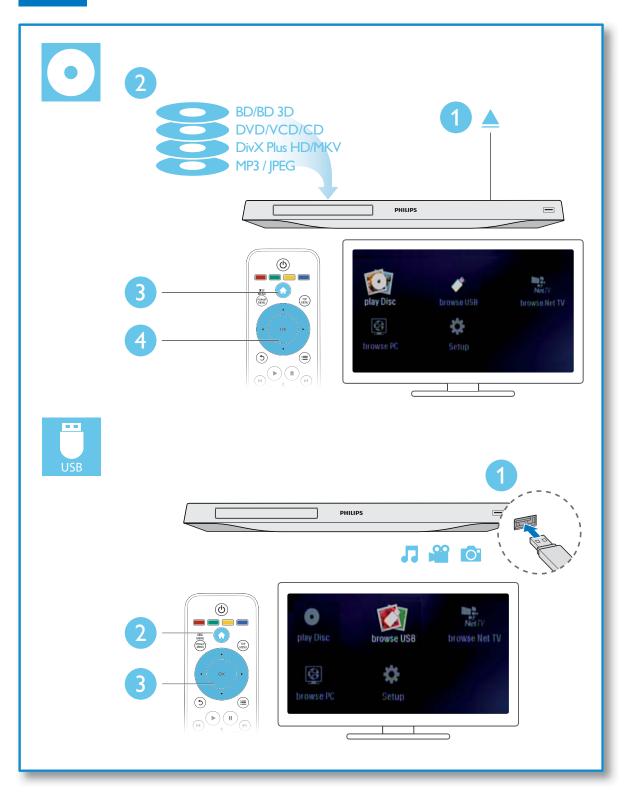








6



2. Safety Instructions, Warnings, Notes, and Abbreviation List

Index of this chapter:

2.1 Safety Instructions

2.2 Warnings

2.3 Notes

2.4 Abbreviation List

2.1 Safety Instructions

Safety regulations require the following during a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol A, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
 - Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
 - 2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
 - 3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 M Ω and 12 M Ω .
 - 4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD 4). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools.
 This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

Measure the voltages and waveforms with regard to the chassis (= tuner) ground (½), or hot ground (⅓), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).

 Where necessary, measure the waveforms and voltages with (¬□) and without (¬□) aerial signal. Measure the voltages in the power supply section both in normal operation (□) and in stand-by (□). These values are indicated by means of the appropriate symbols.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kΩ).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 Ω).
- All capacitor values are given in micro-farads (μ = \times 10⁻⁶), nano-farads (n = \times 10⁻⁹), or pico-farads (p = \times 10⁻¹²).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 BGA (Ball Grid Array) ICs

Introduction

For more information on how to handle BGA devices, visit this URL: www.atyourservice.ce.philips.com (needs subscription, not available for all regions). After login, select "Magazine", then go to "Repair downloads". Here you will find Information on how to deal with BGA-ICs.

BGA Temperature Profiles

For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions)

You will find this and more technical information within the "Magazine", chapter "Repair downloads".

For additional questions please contact your local repair help desk.

2.3.4 Lead-free Soldering

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
 - To reach a solder-tip temperature of at least 400°C.
 - To stabilize the adjusted temperature at the solder-tip.
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilized at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to avoid mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.

Safety Instructions, Warnings, Notes, and Abbreviation List

2.3.5 Alternative BOM identification

It should be noted that on the European Service website, "Alternative BOM" is referred to as "Design variant".

The **third digit** in the serial number (example: KX2B0835000001) indicates the number of the alternative B.O.M. (Bill Of Materials) that has been used for producing the specific AV set. In general, it is possible that the same AV model on the market is produced with e.g. two different types of display, coming from two different suppliers. This will then result in sets which have the same CTN (Commercial Type Number; e.g. MCM394/12) but which have a different B.O.M. number.

Also, it is possible that same model on the market is produced with two production centers, however their partslist is the same. In such case, no alternative B.O.M. will be created.

By looking at the third digit of the serial number, one can identify which B.O.M. is used for the set he is working with. If the third digit of the serial number contains the number "1" (example: KX 1B033500001), then the set has been manufactured according to B.O.M. number 1. If the third digit is a "2" (example: KX 2B0335000001), then the set has been produced according to B.O.M. no. 2. This is important for ordering the correct spare parts!

For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26= 35 different B.O.M.s can be indicated by the third digit of the serial number.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 1 and 2 refer to the production centre (e.g. LM is Arts), digit 3 refers to the B.O.M. code, digit 4 refers to the Service version change code, digits 5 and 6 refer to the production year, and digits 7 and 8 refer to production week (in example below it is 2008 week 50). The 6 last digits contain the serial number.



Figure 2-1 Serial number (example)

2.3.6 Module Level Repair (MLR) or Component Level Repair (CLR)

If a board is defective, consult your repair procedure to decide if the board has to be exchanged or if it should be repaired on component level.

If your repair procedure says the board should be exchanged completely, do not solder on the defective board. Otherwise, it cannot be returned to the O.E.M. supplier for back charging!

2.3.7 Practical Service Precautions

- It makes sense to avoid exposure to electrical shock.
 While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- Always respect voltages. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

2.4 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16 : 9 format, 12 = play 4 : 3 format
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeps the original aspect ratio
ACI	Automatic Channel Installation: algorithm that installs TV channels

means of a predefined TXT page
ADC Analogue to Digital Converter
AFC Automatic Frequency Control: control
signal used to tune to the correct

frequency

directly from a cable network by

AGC Automatic Gain Control: algorithm that controls the video input of the feature

box

AM Amplitude Modulation

ANR Automatic Noise Reduction: one of the

algorithms of Auto TV

AP Asia Pacific

AR Aspect Ratio: 4 by 3 or 16 by 9
ASF Auto Screen Fit: algorithm that adapts

aspect ratio to remove horizontal black bars without discarding video

information

ATSC Advanced Television Systems

Committee, the digital TV standard in

the USA

ATV See Auto TV

Auto TV A hardware and software control system that measures picture content,

and adapts image parameters in a

dynamic way

AV External Audio Video
AVC Audio Video Controller
AVIP Audio Video Input Processor
B/G Monochrome TV system. Sound

carrier distance is 5.5 MHz

BLR Board-Level Repair

BTSC Broadcast Television Standard

Committee. Multiplex FM stereo sound system, originating from the USA and used e.g. in LATAM and AP-NTSC

countries

B-TXT Blue TeleteXT C Centre channel (audio)

CEC Consumer Electronics Control bus:

remote control bus on HDMI

connections

CL Constant Level: audio output to

connect with an external amplifier Component Level Repair

CLR Component Level Repair COLUMBUS COlor LUMinance Baseband

Universal Sub-system

ComPair Computer aided rePair

CP Connected Planet / Copy Protection

CSM Customer Service Mode
CTI Color Transient Improvement:
manipulates steepness of chroma

ianipulates steephess of chroma

transients

CVBS Composite Video Blanking and

Synchronization

DAC Digital to Analogue Converter
DBE Dynamic Bass Enhancement: extra
low frequency amplification

DDC See "E-DDC"

Safety Instructions, Warnings, Notes, and Abbreviation List

mainly used in West Europe (color

carrier= 4.433619 MHz) and South

America (color carrier PAL M=

		Calety Instructions, Warring	gs, Notes, and Abbreviation List
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz		lines. The fields are written in "pairs", causing line flicker.
DFI	Dynamic Frame Insertion	IR	Infra Red
DFU	Directions For Use: owner's manual	IRQ	Interrupt Request
DMR	Digital Media Reader: card reader	ITU-656	The ITU Radio communication Sector
DMSD	Digital Multi Standard Decoding	110 000	(ITU-R) is a standards body
DNM	Digital Natural Motion		subcommittee of the International
DNR	Digital Noise Reduction: noise		Telecommunication Union relating to
Ditir.	reduction feature of the set		radio communication. ITU-656 (a.k.a.
DRAM	Dynamic RAM		SDI), is a digitized video format used
DRM	Digital Rights Management		for broadcast grade video.
DSP	Digital Signal Processing		Uncompressed digital component or
DST	Dealer Service Tool: special remote		digital composite signals can be used.
	control designed for service		The SDI signal is self-synchronizing,
	technicians		uses 8 bit or 10 bit data words, and has
DTCP	Digital Transmission Content		a maximum data rate of 270 Mbit/s,
	Protection; A protocol for protecting		with a minimum bandwidth of 135
	digital audio/video content that is		MHz.
	traversing a high speed serial bus,	ITV	Institutional TeleVision; TV sets for
D1/D 0	such as IEEE-1394	105	hotels, hospitals etc.
DVB-C	Digital Video Broadcast - Cable	JOP	Jaguar Output Processor
DVB-T	Digital Video Broadcast - Terrestrial	LS	Last Status; The settings last chosen
DVD	Digital Versatile Disc		by the customer and read and stored
DVI(-d)	Digital Visual Interface (d= digital only)		in RAM or in the NVM. They are called
E-DDC	Enhanced Display Data Channel (VESA standard for communication		at start-up of the set to configure it
	channel and display). Using E-DDC,		according to the customer's preferences
	the video source can read the EDID	LATAM	Latin America
	information form the display.	LCD	Liquid Crystal Display
EDID	Extended Display Identification Data	LED	Light Emitting Diode
2515	(VESA standard)	L/L'	Monochrome TV system. Sound
EEPROM	Electrically Erasable and	- , -	carrier distance is 6.5 MHz. L' is Band
	Programmable Read Only Memory		I, L is all bands except for Band I
EMI	Electro Magnetic Interference	LORE	LOcal REgression approximation
EPLD	Erasable Programmable Logic Device		noise reduction
EU	Europe	LPL	LG.Philips LCD (supplier)
EXT	EXTernal (source), entering the set by	LS	Loudspeaker
	SCART or by cinches (jacks)	LVDS	Low Voltage Differential Signalling
FBL	Fast BLanking: DC signal	Mbps	Mega bits per second
	accompanying RGB signals	M/N	Monochrome TV system. Sound
FDS	Full Dual Screen (same as FDW)		carrier distance is 4.5 MHz
FDW	Full Dual Window (same as FDS)	MIPS	Microprocessor without Interlocked
FLASH	FLASH memory		Pipeline-Stages; A RISC-based
FM	Field Memory or Frequency	MOD	microprocessor
EDC A	Modulation	MOP	Matrix Output Processor
FPGA FTV	Field-Programmable Gate Array	MOSFET	Metal Oxide Silicon Field Effect
Gb/s	Flat TeleVision Giga bits per second	MPEG	Transistor, switching device Motion Pictures Experts Group
GD/S G-TXT	Green TeleteXT	MPIF	Multi Platform InterFace
Н	H sync to the module	MUTE	MUTE Line
HD	High Definition	NC	Not Connected
HDD	Hard Disk Drive	NICAM	Near Instantaneous Compounded
HDCP	High-bandwidth Digital Content		Audio Multiplexing. This is a digital
	Protection: A "key" encoded into the		sound system, mainly used in Europe.
	HDMI/DVI signal that prevents video	NTC	Negative Temperature Coefficient,
	data piracy. If a source is HDCP coded		non-linear resistor
	and connected via HDMI/DVI without	NTSC	National Television Standard
	the proper HDCP decoding, the		Committee. Color system mainly used
	picture is put into a "snow vision" mode		in North America and Japan. Color
	or changed to a low resolution. For		carrier NTSC M/N= 3.579545 MHz,
	normal content distribution the source		NTSC 4.43= 4.433619 MHz (this is a
	and the display device must be		VCR norm, it is not transmitted off-air)
	enabled for HDCP "software key"	NVM	Non-Volatile Memory: IC containing
LIDMI	decoding.	0/0	TV related data such as alignments
HDMI	High Definition Multimedia Interface	0/C	Open Circuit
HP	HeadPhone Managhrama TV avatam Sound	OSD	On Screen Display
I	Monochrome TV system. Sound carrier distance is 6.0 MHz	OTC	On screen display Teletext and Control; also called Artistic (SAA5800)
I ² C	Inter IC bus	P50	Project 50: communication protocol
I ² D	Inter IC Data bus	1 00	between TV and peripherals
I ² S	Inter IC Sound bus	PAL	Phase Alternating Line. Color system

Intermediate Frequency

Scan mode where two fields are used

to form one frame. Each field contains

half the number of the total amount of

IF

Interlaced

Safety Instructions, Warnings, Notes, and Abbreviation List

3.575612 MHz and PAL N= 3.582056 V-sync to the module VCR MHz) Video Cassette Recorder PCB Printed Circuit Board (same as "PWB") VESA Video Electronics Standards **PCM** Pulse Code Modulation Association Plasma Display Panel 640x480 (4:3) PDP VGA **PFC** Power Factor Corrector (or Pre-Variable Level out: processed audio VΙ

conditioner) output toward external amplifier Picture In Picture VSB Vestigial Side Band; modulation PIP Phase Locked Loop. Used for e.g. method PLL

WYSIWYR FST tuning systems. The customer What You See Is What You Record: can give directly the desired frequency record selection that follows main POR Power On Reset, signal to reset the uP picture and sound

Progressive Scan Scan mode where all scan lines are **WXGA** 1280x768 (15:9) Quartz crystal displayed in one frame at the same XTAI time, creating a double vertical 1024x768 (4:3) XGA

Luminance signal PTC Positive Temperature Coefficient, Y/C Luminance (Y) and Chrominance (C)

non-linear resistor signal

PWB Printed Wiring Board (same as "PCB") YPbPr Component video. Luminance and Pulse Width Modulation scaled color difference signals (B-Y **PWM**

Quasi Resonant Converter **QRC** and R-Y) **QTNR Quality Temporal Noise Reduction** YUV Component video

QVCP Quality Video Composition Processor

RAM Random Access Memory Red, Green, and Blue. The primary **RGB**

color signals for TV. By mixing levels of R, G, and B, all colors (Y/C) are

reproduced. RC Remote Control

RC5 / RC6 Signal protocol from the remote

resolution.

control receiver RESET

RESET signal Read Only Memory **ROM** Red TeleteXT R-TXT

SAM Service Alignment Mode

S/C **Short Circuit**

SCART Syndicat des Constructeurs

d'Appareils Radiorécepteurs et

Téléviseurs

Serial Clock I²C SCL

CLock Signal on Fast I²C bus SCL-F

SD Standard Definition Serial Data I²C SDA

DAta Signal on Fast I²C bus SDA-F

Serial Digital Interface, see "ITU-656" SDI

SDRAM Synchronous DRAM

SECAM SEequence Couleur Avec Mémoire.

Color system mainly used in France and East Europe. Color carriers= 4.406250 MHz and 4.250000 MHz Sound Intermediate Frequency

SIF **SMPS** Switched Mode Power Supply

SoC System on Chip Sync On Green SOG

SOPS Self Oscillating Power Supply S/PDIF Sony Philips Digital InterFace

SRAM Static RAM

SRP Service Reference Protocol

Small Signal Board SSB STBY STand-BY 800x600 (4:3)

SVGA SVHS Super Video Home System

SW Software

SWAN Spatial temporal Weighted Averaging

Noise reduction

SXGA 1280x1024 TFT Thin Film Transistor

Total Harmonic Distortion THD **TMDS** Transmission Minimized Differential

Signalling

TXT TeleteXT

Dual Window with TeleteXT TXT-DW User Interface UI

uР Microprocessor **UXGA** 1600x1200 (4:3)

Mechanical and Dismantling Instructions

Dismantling Instruction

Detailed information please refer to the model set.

The following guidelines show how to dismantle the player.

Step1: Remove 4 screws around the Top Cover, and then remove the Top Cover (Figure 1).





Figure 1

Step2: If it is necessary to dismantle Loader or Front Panel, the Front door should be removed first. (Figure 2) Note: Make sure to operate gently otherwise the guider would be damaged.



Please kindly note that dismantle the front door assembly carefully to avoid damage tray and the front door.

Figure 2

Mechanical and Dismantling Instructions Dismantling Instruction

Detailed information please refer to the model set.

Step3: Dismantling Front Panel, disconnect the connectors (XP5, XP2,XP4)(Figure 3)
Then Remove1 PCS Screw away(Figure 3)

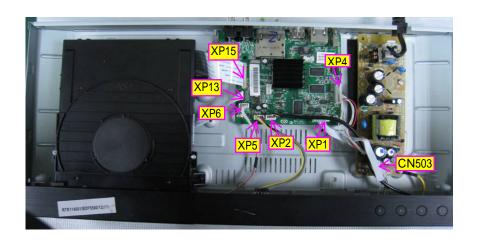




Figure 3

Step4: Dismantling Front Panel, need release 2 snaps of Front Panel and 2 snaps of bottom cabinet, then gently pull the Panel out from the set. (Figure 4)







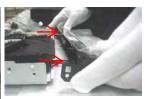


Figure 4

Mechanical and Dismantling Instructions

Dismantling Instruction

Detailed information please refer to the model set.

Step5: Dismantling Loader, disconnect the 3 connectors (XP15,XP13,XP6) (Figure 3) aiming in the below figure, and remove 2 screws . (Figure 5)

Step6:Dismantling WFI Board, need release 1 snap of WIFI Board, then gently pull the Panel out from the set. (Figure 5)





Figure 5

Step7: Dismantling Main Board , first disconnect the connector (XP4), and then remove 4 screws. (Figure 6) **Step8**:Dismantling Power Board , first disconnect the connector (XP1), and then remove 3 screws. (Figure 6)





Software check and upgrade

Preparation to upgrade software

- 1)Start the CD burning software & create a folder named "UPG_ALL",
- 2)Then copy the Bin file (BDP5500.bin) into it,
- 3)Burn the data onto the blank CD or USB.

A. Procedure for software upgrade

A) Upgrade software via Disc

- 1) Power on the set and insert the prepared Upgrade CD.
- 2) The set will starts reading disc & response with the following display TV screen:

Now searching for upgrade software!

Please wait!

- Wait for a few seconds, then screen will display:
 Software upgrade for this player have been found. Do you want to upgrade? (choosing "Cancle" or "Start" shows on TV set)
- 4) Press Right cursor button to choose "Start", then press <OK>;
- 5) The software will upgrade and screen will display as below: Upgrade is ongoing, Please wait.

Please do not unplug or switch off the device.

6) The screen will display as below when upgrading complete: Upgrade has completed successfully!

Power off after 5s.

Software BE:Passed

Software FE:Passed

5) Restart the set. (choosing "Restart" shows on TV set)

B) Upgrade softwar via network:

- Setup the network connection (See "Getting started">"Set up network").
- 2) In the Home menu, select <Setting>-<Advanced Setup>-<Software Download>-<Network>.
- You are prompted to start upgrading processes if upgrade media is detected.
- Follow the instructions on the TV screen to confirm update operation.
- Once software updated is complete, this player automatically truns to reboot.

C) Update software via USB Flash Drive:

- Go to www.philips.com/support to check if the latest software version is available for this player.
- 2) Download the software onto a USB flash drive.
- 3) Insert the USB flash drive to the USB jack of the rear panel.
- 4) In the Home menu, select <Setup>-<Advanced Setup>-<Software Updade >-<USB>.
- 5) Follow the instructions on the TV screen to confrim update operation.
- * Once software update is complete, this player automatically turns to reboot

B. Read out the software versions to confirm upgrading

- 1) Power on the set.
- 2) Press <Home> button on the reomote control.
- 3) Select <Setup>, then press <OK>.
- 4) Select <Advanced Setup>, press right cursor to choose <Version Info.>, then press <OK>, the software version and other information will display on the TV screen as below:

Model:BDP5500

Versions:

System SW: XXX

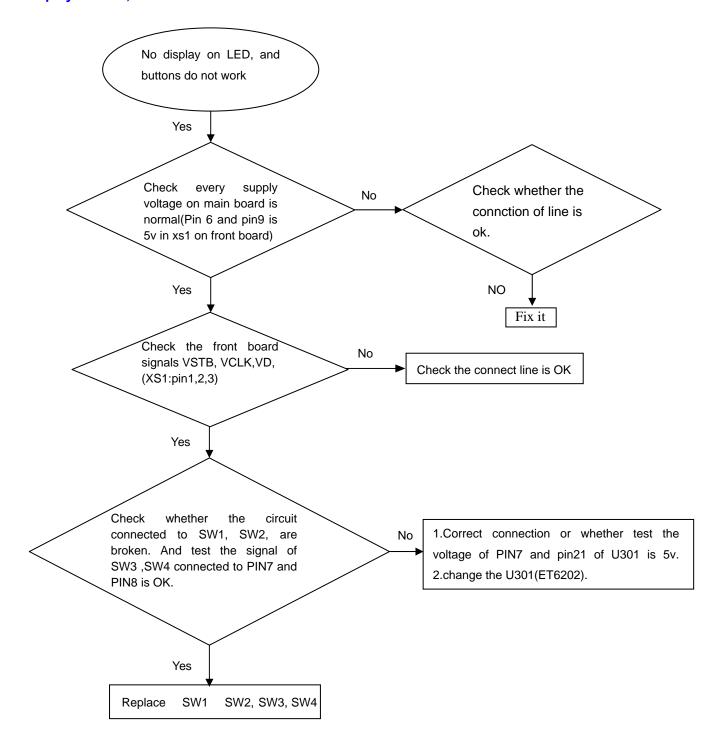
Ethernet MAC:XX-XX-XX-XX-XX

Wireless MAC:XX-XX-XX-XX-XX

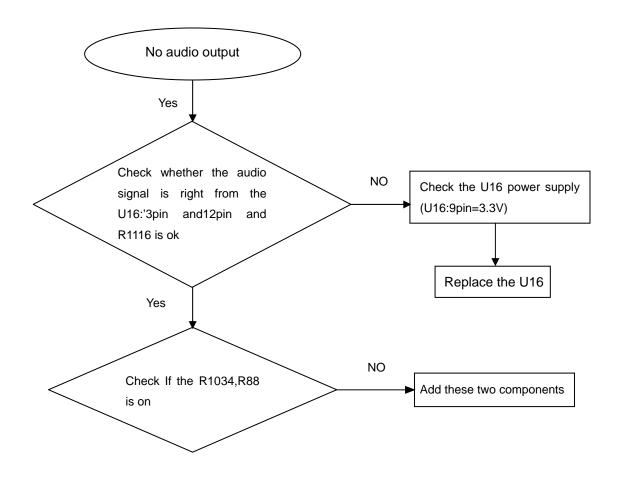
For Information, frequently asked questions and software updates, visit www.philips.com/support

Caution: The set must not be power off during upgrading, otherwise the Main board will be damaged entirely.

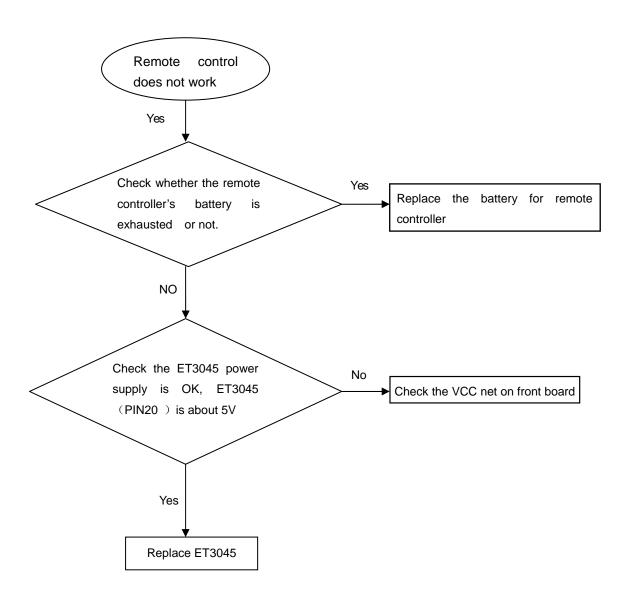
No display on LED, and buttons do not work



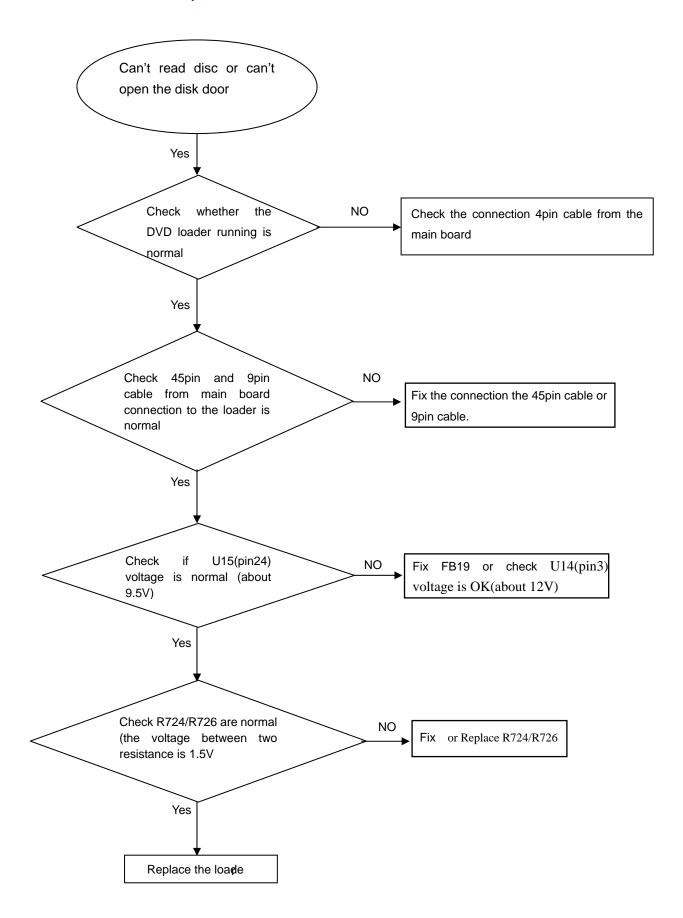
No audio output



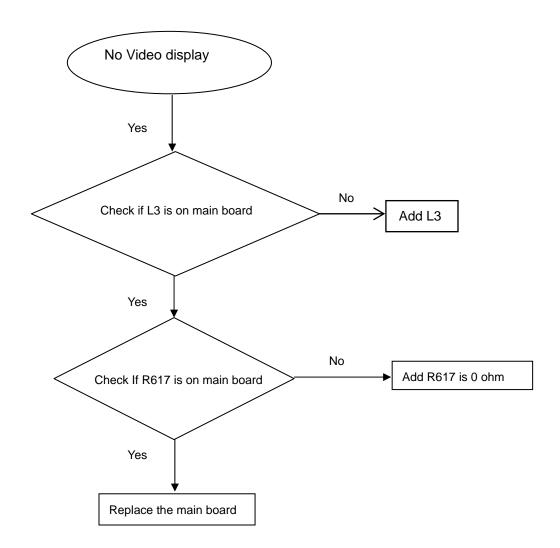
Remote control does not work



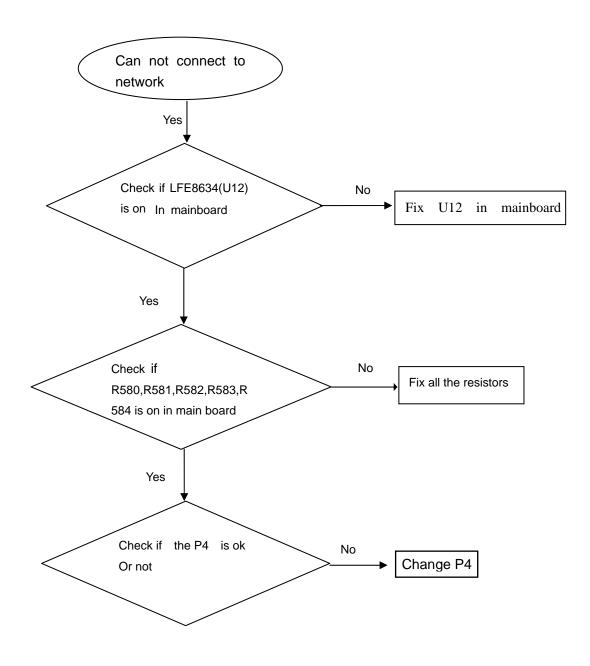
Can't read disc or can't open the disk door



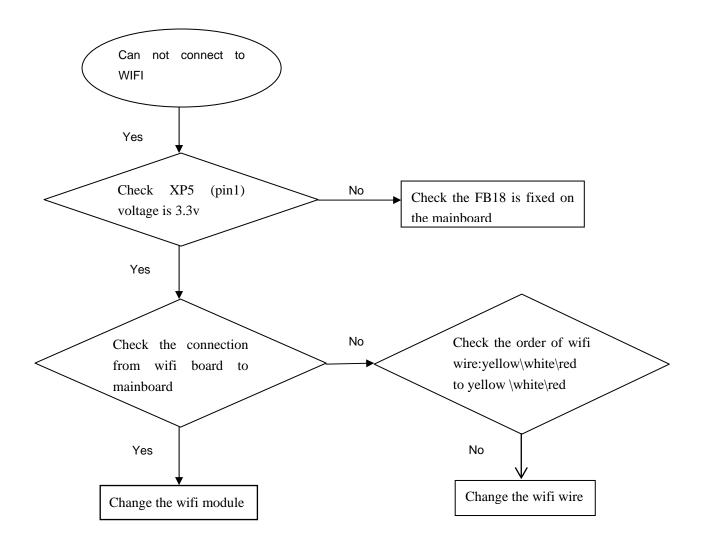
No video display

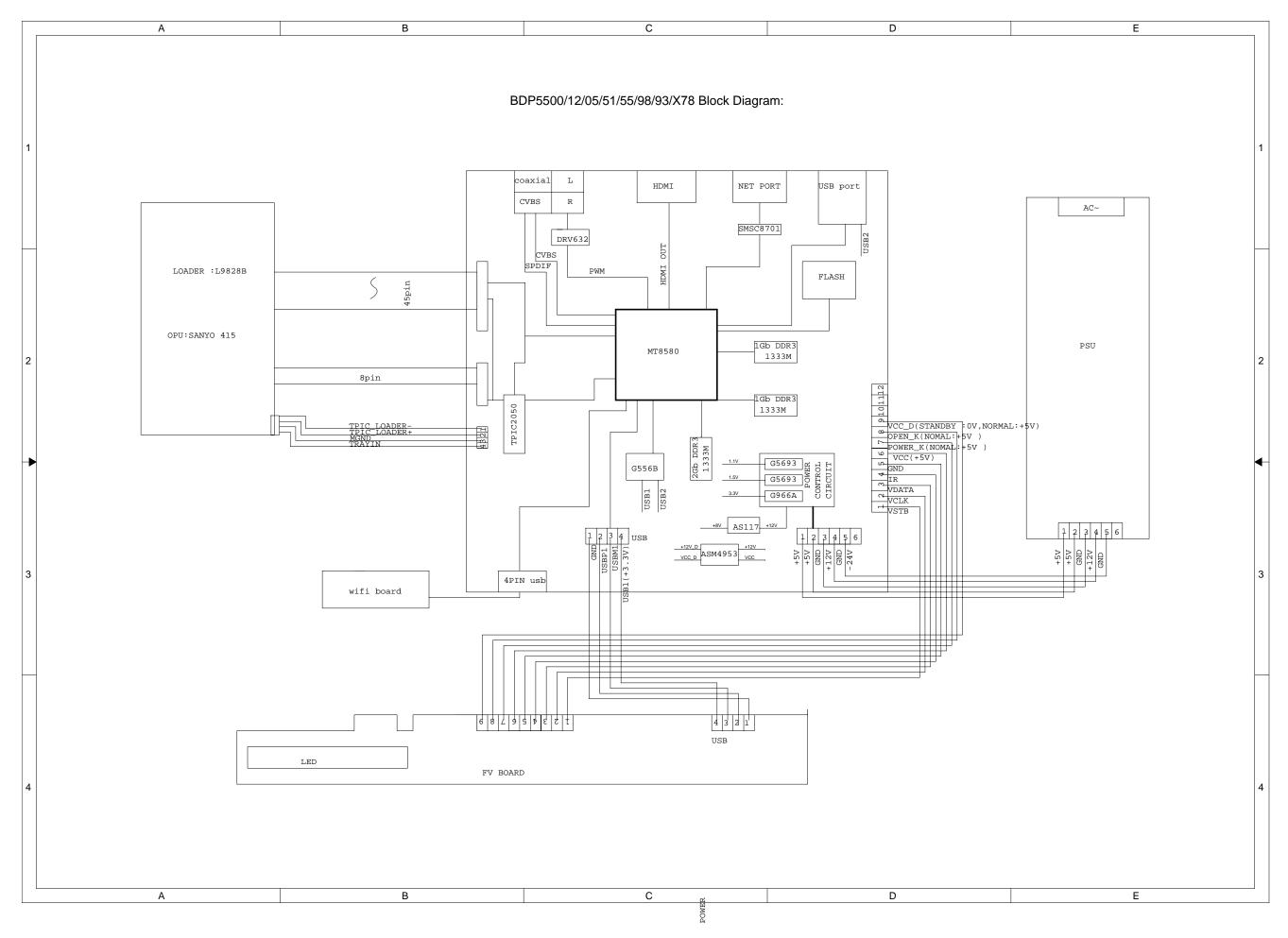


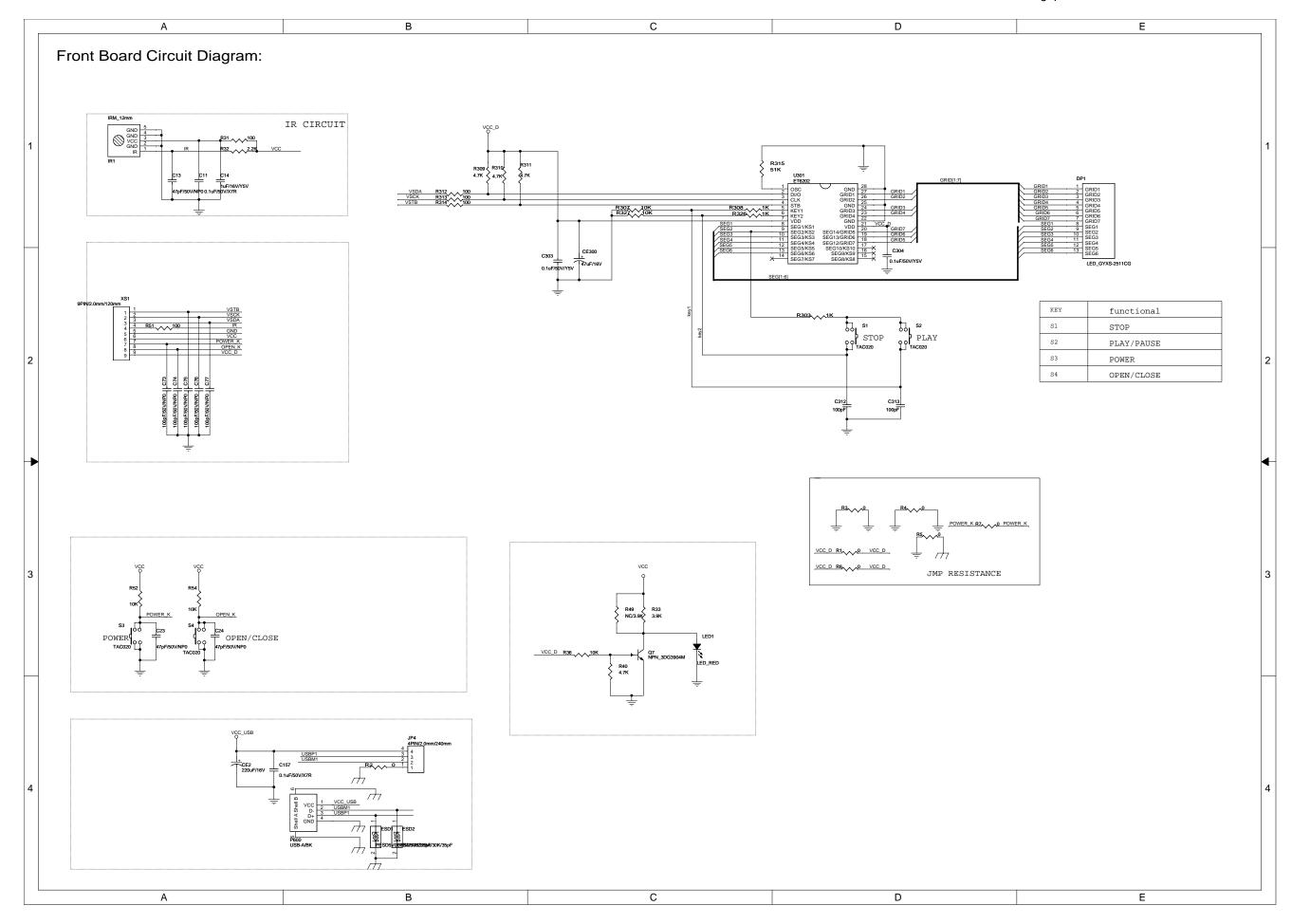
Can not connect to network

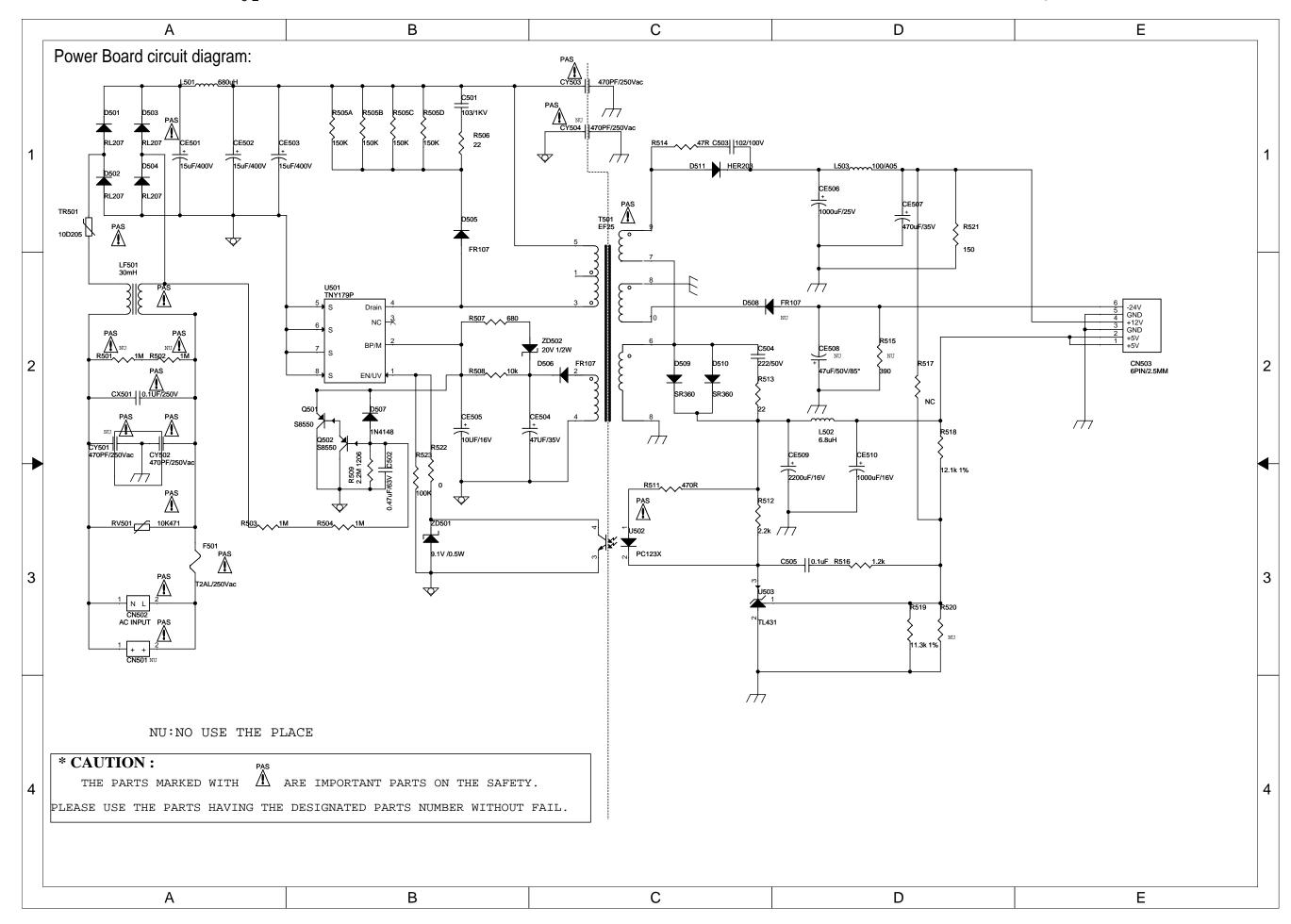


Can not connect to WIFI

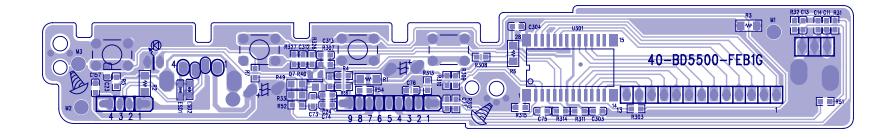




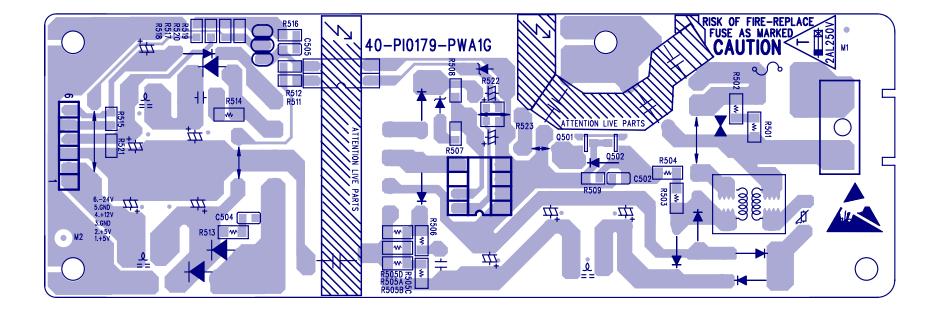




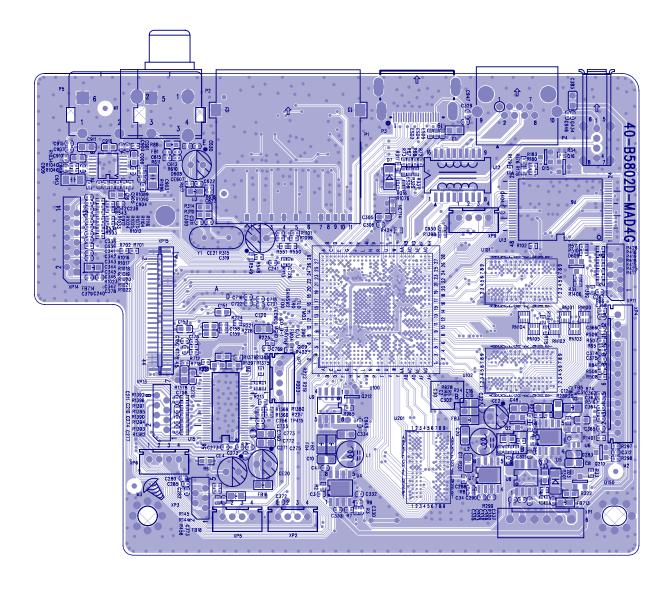
Front Board Print-layout (Bottom side):



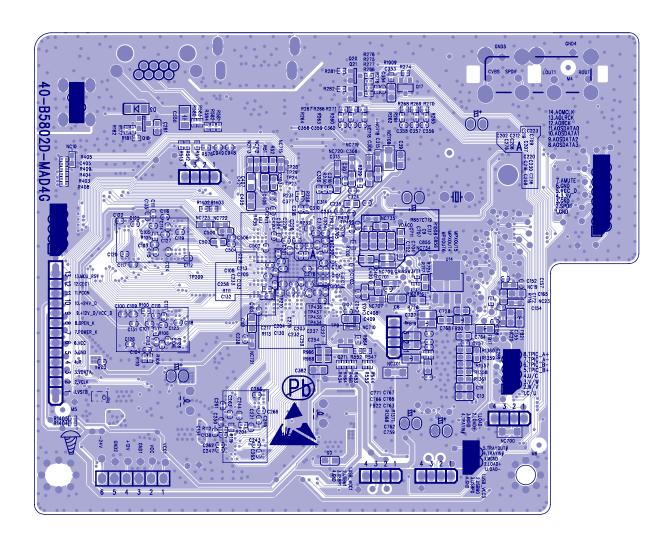
Power Board Print-layout (Bottom side):



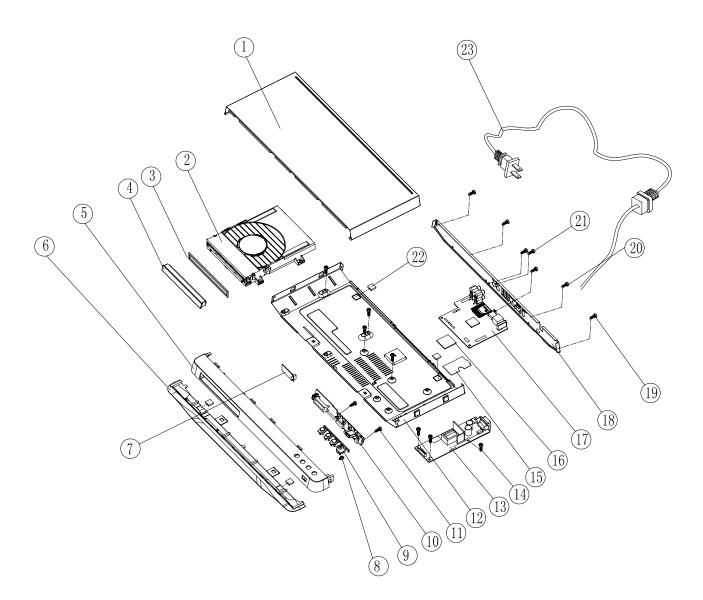
Main Board Print-layout (Top side):



Main Board Print-layout (Bottom side):



Exploded view for BDP5500/12/05/51/55/93/98/X78:



REVISION LIST

Version 1.0

- * Initial release for BDP5500/12/05/51/55/93/98 Version 1.1
- * Initial release for BDP5500X/78